

**CLAIMS**

1. Watch comprising a case (1) having a back (3), a movement (6) contained in said case and an electronic module (14) for storing information able to communicate by radio signals with a device for reading and/or writing said information, said module comprising a cup-shaped amagnetic material base (15), an integrated circuit (24) having at least two connecting terminals (26, 27) and fixed to a flat bottom (16) of said base and a send and receive antenna comprising a coil (23) also fixed to the flat bottom of said base and surrounded by a lateral wall (17) of said base, the coil consisting of an electrically conductive wire (28) having two ends (29) connected to respective connecting terminals of said integrated circuit, said coil having an annular shape and surrounding a space in which said integrated circuit is placed, said watch being characterised in that said electronic module (14) is housed at least for the most part in a cavity (13) in the back (3) of the case (1) open towards the outside, and in that the thickness of said lateral wall (17) increases slightly and continuously from its base adjoining said flat bottom (16) to its top so that it has an exterior surface (18) co-operating with an internal wall (19) of complementary shape of said cavity (13) and constitutes a dovetail joint between said electronic module (14) and the back (3) of said case (1).

2. Watch according to claim 1, characterised in that said cavity (13) and said module (14) have an essentially cylindrical shape and are situated at the centre of the back (3) of said case (1).

3. Watch according to claim 1, characterised in that the base (15) of said module (14) is set into, adhesively bonded in or crimped in said cavity (13).

4. Watch according to claim 1, characterised in that said base (15) is made of a plastic material, a ceramic material or sapphire.

5. Watch according to claim 1, characterised in that said coil (23) is a self-supporting coil that comprises a plurality of layers of contiguous and substantially coaxial turns that are formed by a thin metal wire surrounded by a sheath of electrically insulative material and connected together.

6. Watch according to claim 1, characterised in that said coil (23) and said integrated circuit (24) are adhesively bonded directly to said base (15) and said ends (29) of the wire (28) of the coil are also fixed directly to said terminals (26, 27) of the integrated circuit by means of an electrically conductive material.

7. Watch according to claim 1, characterised in that said coil (23) and said integrated circuit (24) are fixed to the substrate (38) of a printed circuit (39) that has two connecting lands (40) situated between said coil and said integrated circuit to

Amended claims attached to the IPER

which are fixed said ends (29) of the wire (28) of said coil and two ends of two conductive wires (41) whose other ends are fixed to said connecting terminals (26, 27) of said integrated circuit.

8. Watch according to claim 1, characterised in that said module (14) has a portion projecting out of the back (3) of said case (1) adapted to position it quickly and accurately on a head (35) of said reading and/or writing device which itself comprises an antenna in the form of a coil (36) and has a recess (35') substantially the same shape and size as said boss (34).